

CANDIDATE
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SCIENCE

Paper 1

1113/01

April 2019

45 minutes

Candidates answer on the Question Paper.

Additional Materials:

Pen
Pencil
Ruler

Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer **all** questions.

You should show all your working in the booklet.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

The total number of marks for this paper is 50.

This document consists of **18** printed pages and **2** blank pages.



Lsbu Past Paper Exams

Huangqi Zhang



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Crossing Design Boundaries Paul Rodgers, Libby Brodhurst, Duncan Hepburn, 2006-02-01 This book presents over 100 papers from the 3rd Engineering Product Design Education International Conference dedicated to the subject of exploring novel approaches in product design education The theme of the book is Crossing Design Boundaries which reflects the editors wish to incorporate many of the disciplines associated with and integral to modern product design and development pursuits Crossing Design Boundaries covers for example the conjunction of anthropology and design the psychology of design products the application of soft computing in wearable products and the utilisation of new media and design and how these can be best exploited within the current product design arena The book includes discussions concerning product design education and the cross over into other well established design disciplines such as interaction design jewellery design furniture design and exhibition design which have been somewhat under represented in recent years The book comprises a number of sections containing papers which cover highly topical and relevant issues including Design Curriculum Development Interdisciplinarity Design Collaboration and Team Working Philosophies of Design Education Design Knowledge New Materials and New Technologies in Design Design Communication Industrial Collaborations and Working with Industry Teaching and Learning Tools and Design Theory **Library Technology News** ,1992 **The Challenges of the Digital Transformation in Education** Michael E. Auer, Thrasyvoulos Tsiatsos, 2019-02-28 This book offers the latest research and new perspectives on Interactive Collaborative Learning and Engineering Pedagogy We are currently witnessing a significant transformation in education and in order to face today's real world challenges higher education has to find innovative ways to quickly respond to these new needs Addressing these aspects was the chief aim of the 21st International Conference on Interactive Collaborative Learning ICL2018 which was held on Kos Island Greece from September 25 to 28 2018 Since being founded in 1998 the conference has been devoted to new approaches in learning with a special focus on collaborative learning Today the ICL conferences offer a forum for exchanging information on relevant trends and research results as well as sharing practical experiences in learning and engineering pedagogy This book includes papers in the fields of New Learning Models and Applications Pilot Projects Applications Project based Learning Real world Experiences Remote and Virtual Laboratories Research in Engineering Pedagogy Technical Teacher Training It will benefit a broad readership including policymakers educators researchers in pedagogy and learning theory school teachers the learning industry further education lecturers etc *Managing Information* ,1995 *Imaging* ,1995 , *Passing Your Advanced Nursing OSCE* Helen Ward, Julian Barratt, Navreet Paul, 2021-07-28 This book aims to provide an easily accessible quick reference guide for advanced nursing students preparing to undertake practical examinations to assess advanced clinical practice competence and students preparing for practical examinations in non medical prescribing assessment These examinations are commonly known as objective structured clinical examinations OSCEs The book is a preparation and revision tool designed to be read in

conjunction with any recommended core clinical textbooks however along with giving students step by step instructions on performing well in OSCE scenarios it also gives guidance to academic staff on preparing to teach and mark OSCEs This book uses a case study approach to OSCEs in a coherent consistent and easily understandable style Both authors are clinical academic nurse practitioners who regularly work in clinical practice in conjunction with teaching advanced nurse practitioner and non medical prescribing students

Software Engineering and Formal Methods. SEFM 2021 Collocated Workshops Antonio Cerone,Marco Autili,Alessio Bucaioni,Cláudio Gomes,Pierluigi Graziani,Maurizio Palmieri,Marco Temperini,Gentiane Venture,2022-09-24 This volume constitutes revised selected papers from the four workshops collocated with the 19th International Conference on Software Engineering and Formal Methods SEFM 2021 held virtually during December 6 10 2021 The 21 contributed papers presented in this volume were carefully reviewed and selected from a total of 29 submissions The book also contains 3 invited talks SEFM 2021 presents the following four workshops CIFMA 2021 3rd International Workshop on Cognition Interdisciplinary Foundations Models and Applications CoSim CPS 2021 5th Workshop on Formal Co Simulation of Cyber Physical Systems OpenCERT 2021 10th International Workshop on Open Community approaches to Education Research and Technology ASYDE 2021 3rd International Workshop on Automated and verifiable Software sYstem Development Due to the Corona pandemic this event was held virtually

Universities and Students G.R. Evans,Jaswinder Gill,2013-09-13 Legal actions by students against universities are growing in number and the issues such actions raise are becoming a major concern for both teaching and administrative staff This handbook is designed to clarify the legal framework that binds the student with the university or college

Library Technology ,1996

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web klasifikasi dan morfologi tanaman kangkung lengkap hai sobat vertikal siapa yang tidak kenal dengan tanaman kangkung yap tanaman ini sudah tidak asing lagi bagi kita dan sangat muda dijumpai baik di darat maupun di perairan

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web nov 10 2018 untuk lebih jelasnya terdapat klasifikasi berdasarkan taksonomi tanaman kangkung yaitu kingdom plantae sub kingdom tracheobionta infra kingdom streptophyta super divisi spermatophyta divisi magnoliophyta kelas magnoliapsida sub kelas asteridae ordo solanales famili convolvulaceae genus ipomea

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web kelas ordo family genus species jenis kangkung yang umumnya dibudidayakan terdiri dari dua macam yaitu kangkung air dan kangkung darat bagian dari tanaman kangkung yang paling banyak dimanfaatkan ialah batang muda dan daun daunnya daun dan batang kangkung merupakan

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berada di asia afrika amerika selatan amerika tengah dan oceania di kawasan asia

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web 2 1 botani tanaman kangkung 2 1 1 sistematika tanaman kangkung ipomoea reptans poir sebagai berikut sunarjono 2003 kingdom plantae divisio spermatophyta sub divisio angiospermae kelas dicotyledonae ordo solanales famili convolvulaceae genus ipomoea spesies ipomoea reptans poir 2 1 2 morfologi tanaman kangkung

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web kangkung termasuk ke dalam famili convolvulaceae atau kangkung kangkungan dengan ciri ciri batangnya kecil bulat panjang bagian dalamnya berlubang dan bergetah selain itu kangkung merupakan sumber vitamin a vitamin c dan mineral seperti zat besi kalsium kalium dan fosfor nazaruddin 2003

bab ii tinjauan pustaka universitas diponegoro - Feb 09 2023

web tinjauan pustaka 2 1 kangkung kangkung ipomoea reptans merupakan tanaman tahunan yang hidup di daerah tropis maupun subtropis tanaman ini termasuk dalam famili convolvulaceae atau kangkung kangkungan dengan batang bergetah dan berlubang didalamnya spesies dari tanaman sejenis ini adalah ipomeae batatas atau ubi jalar

kangkung klasifikasi nama ilmiah tanaman ciri ciri jenis - Jun 13 2023

web sep 15 2023 klasifikasi kangkung tanaman yang memiliki nama ilmiah ipomea aquatic forsk ini pasti sudah familiar di telinga anda tapi tahukah anda apa klasifikasi tanaman kangkung berikut klasifikasinya kingdom plantae sub kingdom viridiplantae infra kingdom streptophyta

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web tanaman kangkung ipomoea reptans poir diklasifikasikan sebagai berikut kingdom plantae divisi spermatophyta sub divisi angiospermae kelas dicotyledonae ordo solanales famili convolvulaceae genus ipomoea spesies ipomoea reptans poir morfologi tanaman kangkung darat

tanaman kangkung klasifikasi ciri morfologi jenis dan cara - Mar 10 2023

web apr 13 2023 berikut klasifikasinya kingdom plantae sub kingdom viridiplantae infra kingdom streptophyta luar biasa divisi embryophyta divisi tracheophyta sub divisi spermatophytina kelas magnoliopsida ordo solanales famili convolvulaceae genus ipomea l spesies ipomea aquatic forsk